What is claimed is:

1. A laminate packaging flat cell, comprising:

a laminate film formed by combining polymer and metal with each other:

a power generating element formed of a plurality of electrode plates and separators, and hermetically sealed by the laminate film; and

an electrode terminal lead coupled to the electrode plate, wherein the power generating element is hermetically sealed by forming a thermally welded portion on an outer periphery of the laminate film, and

the electrode terminal lead protrudes from the thermally welded portion, and a through-hole is provided in a position thereof contacting the thermally welded portion.

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- 2. A laminate packaging flat cell according to claim 1, wherein a plurality of the through-holes are provided in the electrode terminal lead from the power generating element side to an outside of the cell so as not to overlap with each other.
- 3. A laminate packaging flat cell according to claim 1, wherein a ratio of a cross-sectional area of the through-holes to a cross-sectional area of the electrode terminal lead ranges from 20 to 50%.

- 4. A laminate packaging flat cell according to claim 1, wherein an adhesive layer is provided on at least one surface of the electrode terminal lead.
- 5 S. A laminate packaging flat cell according to claim 1, wherein an end of the laminate film joined to the electrode terminal lead is folded back toward an outside of the cell.
 - 6. A battery module, comprising:

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at least two laminate packaging flat cells connected in series and/or in parallel,

the laminate packaging flat cell comprising:

- a laminate film formed by combining polymer and metal with each other;
- a power generating element formed of a plurality of electrode plates and separators, and hermetically sealed by the laminate film; and
 - an electrode terminal lead coupled to the electrode plate,
- wherein the power generating element is hermetically sealed by forming a thermally welded portion on an outer periphery of the laminate film, and

the electrode terminal lead protrudes from the thermally welded portion, and a through-hole is provided in a position thereof contacting the thermally welded portion.

7. An assembled battery, comprising:

at least two battery modules connected in series and/or in parallel, the battery modules including a laminate packaging flat cell,

5 the laminate packaging flat cell comprising:

a laminate film formed by combining polymer and metal with each other;

a power generating element formed of a plurality of electrode plates and separators, and hermetically sealed by the laminate film; and

an electrode terminal lead coupled to the electrode plate.

wherein the power generating element is hermetically sealed by forming a thermally welded portion on an outer periphery of the laminate film, and

the electrode terminal lead protrudes from the thermally welded portion, and a through-hole is provided in a position thereof contacting the thermally welded portion.

20 8. A vehicle, comprising:

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An assembled battery including at least two battery modules connected in series and/or in parallel, the battery modules having a laminate packaging flat cell,

the laminate packaging flat cell, comprising:

a laminate film formed by combining polymer and metal with each other;

a power generating element formed of a plurality of electrode plates and separators, and hermetically sealed by the laminate film; and

an electrode terminal lead coupled to the electrode plate,

wherein the power generating element is hermetically sealed by forming a thermally welded portion on an outer periphery of the laminate film, and

the electrode terminal lead protrudes from the thermally welded portion, and a through-hole is provided in a position thereof contacting the thermally welded portion.

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9. Amethod for manufacturing a laminate packaging flat cell, comprising:

preparing a laminate film formed by combining polymer and metal with each other; a power generating element formed of a plurality of electrode plates and separators, and hermetically sealed in the laminate film by forming a thermally welded portion on an outer periphery of the laminate film; and an electrode terminal lead coupled to the electrode plate, and having a through-hole provided in a contact portion with the thermally welded portion;

attaching an adhesive layer onto the contact portion of at least one surface of the electrode terminal lead; and

forming the thermally welded portion by thermally welding the laminate film while interposing the adhesive layer

therebetween, and hermetically sealing the power generating element.